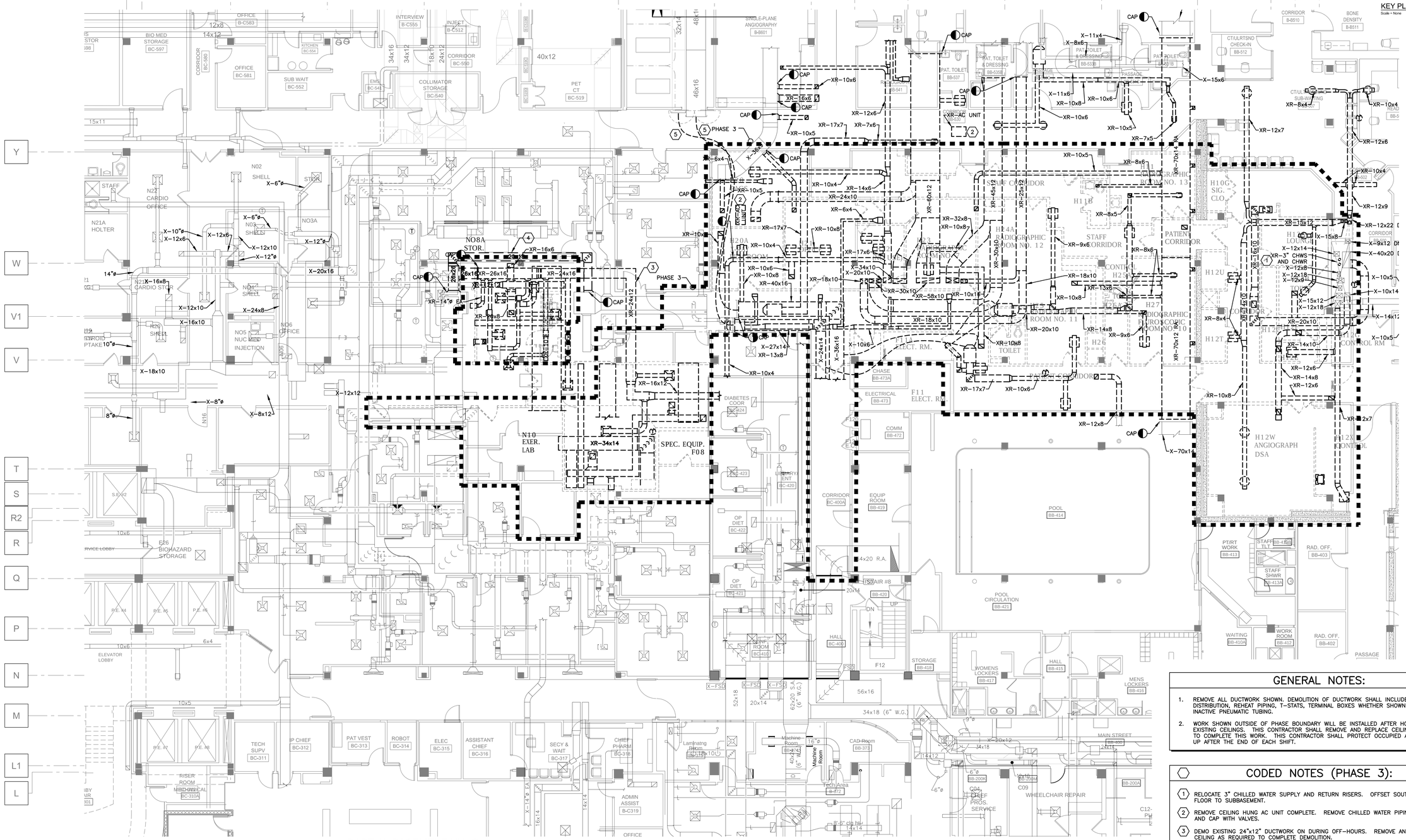

PARTIAL BASEMENT HVAC DEMOLITION PLAN - PHASE 3

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1

GENERAL NOTES:

1. REMOVE ALL DUCTWORK SHOWN. DEMOLITION OF DUCTWORK SHALL INCLUDE ASSOCIATED AIR DISTRIBUTION, REHEAT PIPING, T-STATS, TERMINAL BOXES WHETHER SHOWN OR NOT AND ALL INACTIVE PNEUMATIC TUBING.
2. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

CODED NOTES (PHASE 3):

1. RELOCATE 3" CHILLED WATER SUPPLY AND RETURN RISERS. OFFSET SOUTH FROM 1ST FLOOR TO SUBBASEMENT.
2. REMOVE CEILING HUNG AC UNIT COMPLETE. REMOVE CHILLED WATER PIPING BACK TO MAIN AND CAP WITH VALVES.
3. DEMO EXISTING 24"x12" DUCTWORK ON DURING OFF-HOURS. REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE DEMOLITION.
4. DEMO TEMPORARY SUPPLY DUCT AFTER NEW 54"x22" SUPPLY DUCT IS INSTALLED.
5. REMOVE TEMPORARY DUCT AND CAP.

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

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Drawing Title: PARTIAL BASEMENT HVAC DEMOLITION PLAN - PHASE 3

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H3.3

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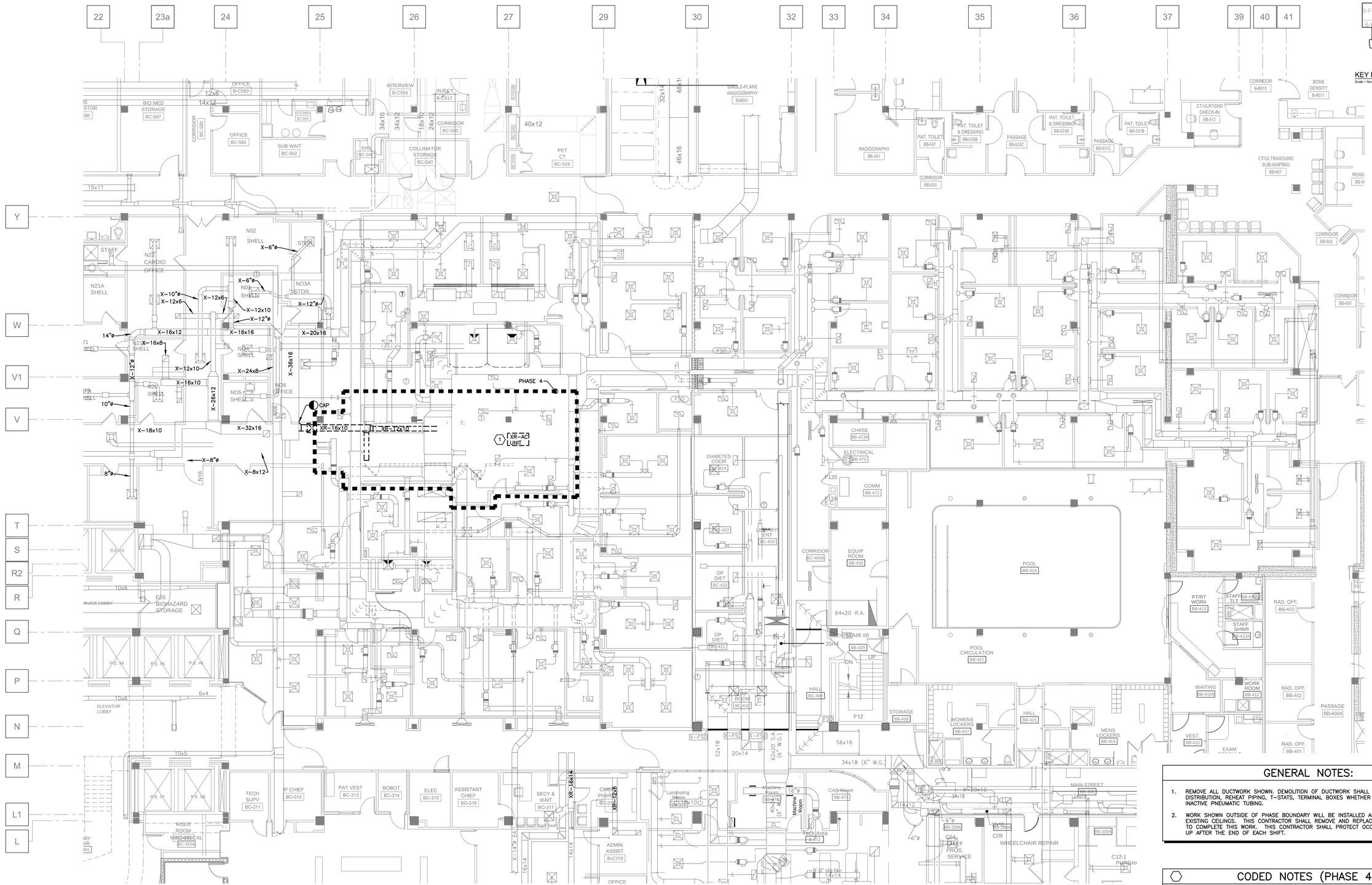
Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978



PARTIAL BASEMENT HVAC
DEMOLITION PLAN - PHASE 4
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'
1

GENERAL NOTES:

1. REMOVE ALL DUCTWORK SHOWN. DEMOLITION OF DUCTWORK SHALL INCLUDE ASSOCIATED AIR DISTRIBUTION, REHEAT PIPING, T-STATS, TERMINAL BOXES WHETHER SHOWN OR NOT AND ALL INACTIVE PNEUMATIC TUBING.
2. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

CODED NOTES (PHASE 4):

1. REMOVE CEILING HUNG AC UNIT COMPLETE. REMOVE CHILLED WATER PIPING BACK TO MAIN AND CAP WITH VALVES.

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

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Drawing Title: PARTIAL BASEMENT HVAC DEMOLITION PLAN - PHASE 4

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H3.4

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Department of Veterans Affairs

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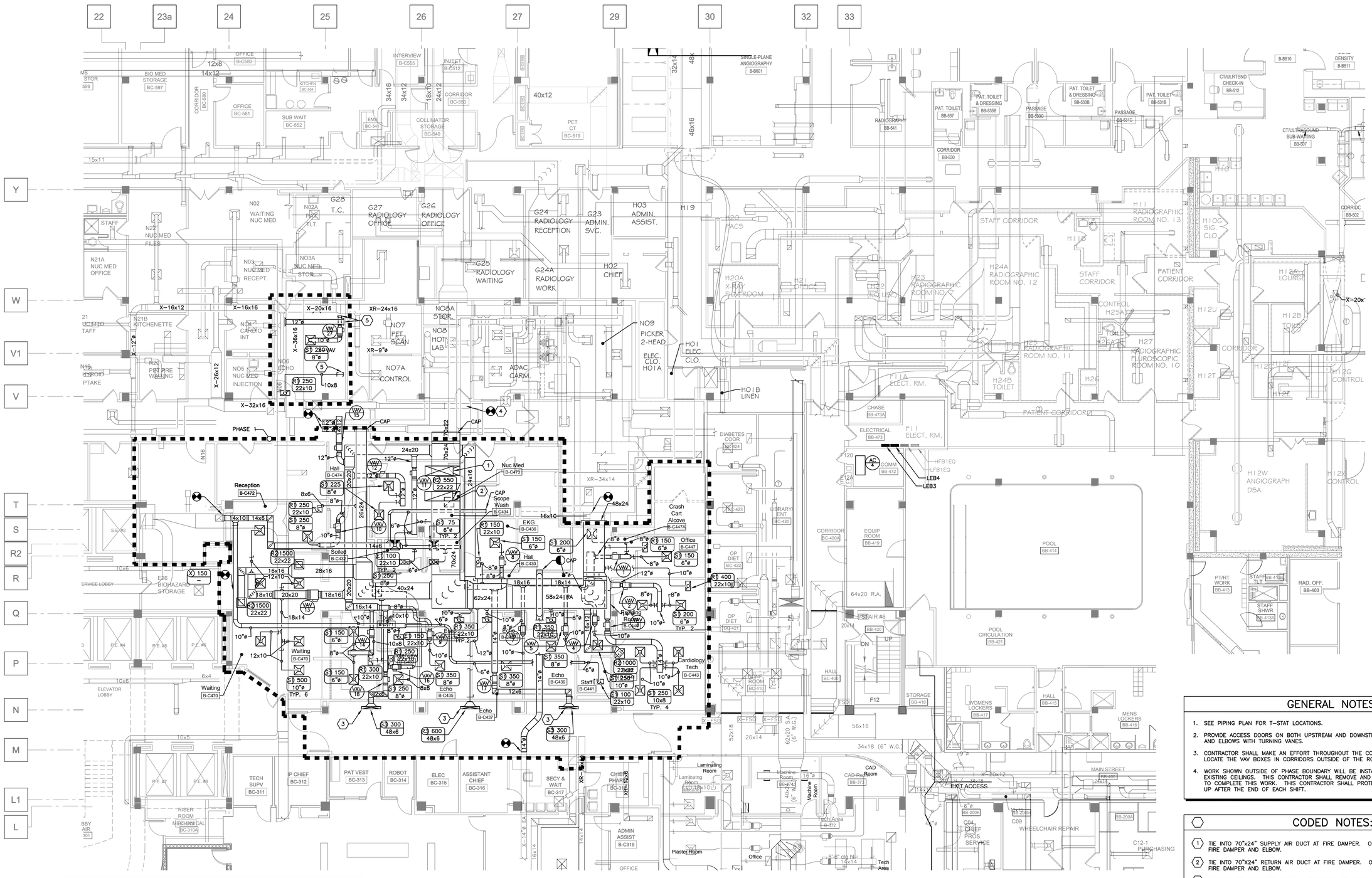

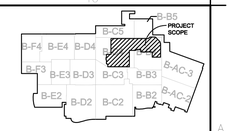

KEY PLAN - BASEMENT

Scale = None

NORTH
TRUE NORTH

GENERAL NOTES:

1. SEE PIPING PLAN FOR T–STAT LOCATIONS.
2. PROVIDE ACCESS DOORS ON BOTH UPSTREAM AND DOWNSTREAM SIDES OF ALL FIRE DAMPERS AND ELBOWS WITH TURNING VANES.
3. CONTRACTOR SHALL MAKE AN EFFORT THROUGHOUT THE COORDINATION DRAWING PROCESS TO LOCATE THE VAV BOXES IN CORRIDORS OUTSIDE OF THE ROOMS.
4. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

CODED NOTES:

1. TIE INTO 70"x24" SUPPLY AIR DUCT AT FIRE DAMPER. OFFSET EAST IN DROP BETWEEN FIRE DAMPER AND ELBOW.
2. TIE INTO 70"X24" RETURN AIR DUCT AT FIRE DAMPER. OFFSET EAST IN DROP BETWEEN FIRE DAMPER AND ELBOW.
3. PROVIDE NEW INSULATED PLENUM MEASURING 48"x6"x12". COORDINATE EXACT GRILL LOCATION WITH ARCHITECT.
4. TIE EXISTING EXHAUST DUCT INTO EXISTING RETURN DUCT.
5. CAP EXISTING DUCT FOR FUTURE CONNECTION IN PHASE 2.

PHASING NOTES:

REFER TO ARCHITECTURAL PHASING PLANS (DWGS 1–01.1, 1–01.2, 1–01.3, 1–01.4) FOR ADDITIONAL CONSTRUCTION PHASING REQUIREMENTS. CONTRACTOR WILL HAVE LIMITED ACCESS AND TIME TO COMPLETE WORK IN AREAS NOTED ON ARCHITECTURAL PHASING PLANS. WORK IN AREAS OUTSIDE CONSTRUCTION PHASE BOUNDARY OR AREAS NOTED TO BE COMPLETED AS A PART OF PREVIOUS OR FUTURE SEQUENCE WITHIN THE PHASE SHALL BE COMPLETED DURING OFF HOURS.

PARTIAL BASEMENT HVAC DUCTWORK PLAN - PHASE 1

1

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

FULLY SPRINKLERED

Revisions:	Date
Amendment 01	07/09/14
Bid Issue	01/17/14

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Drawing Title: **NUCLEAR MEDICINE PARTIAL BASEMENT HVAC DUCTWORK PLAN - PHASE 1**

Approved: Project Director

Project Title: **EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY**

Location: **VAMC - WADE PARK**

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: **1-H4.1**

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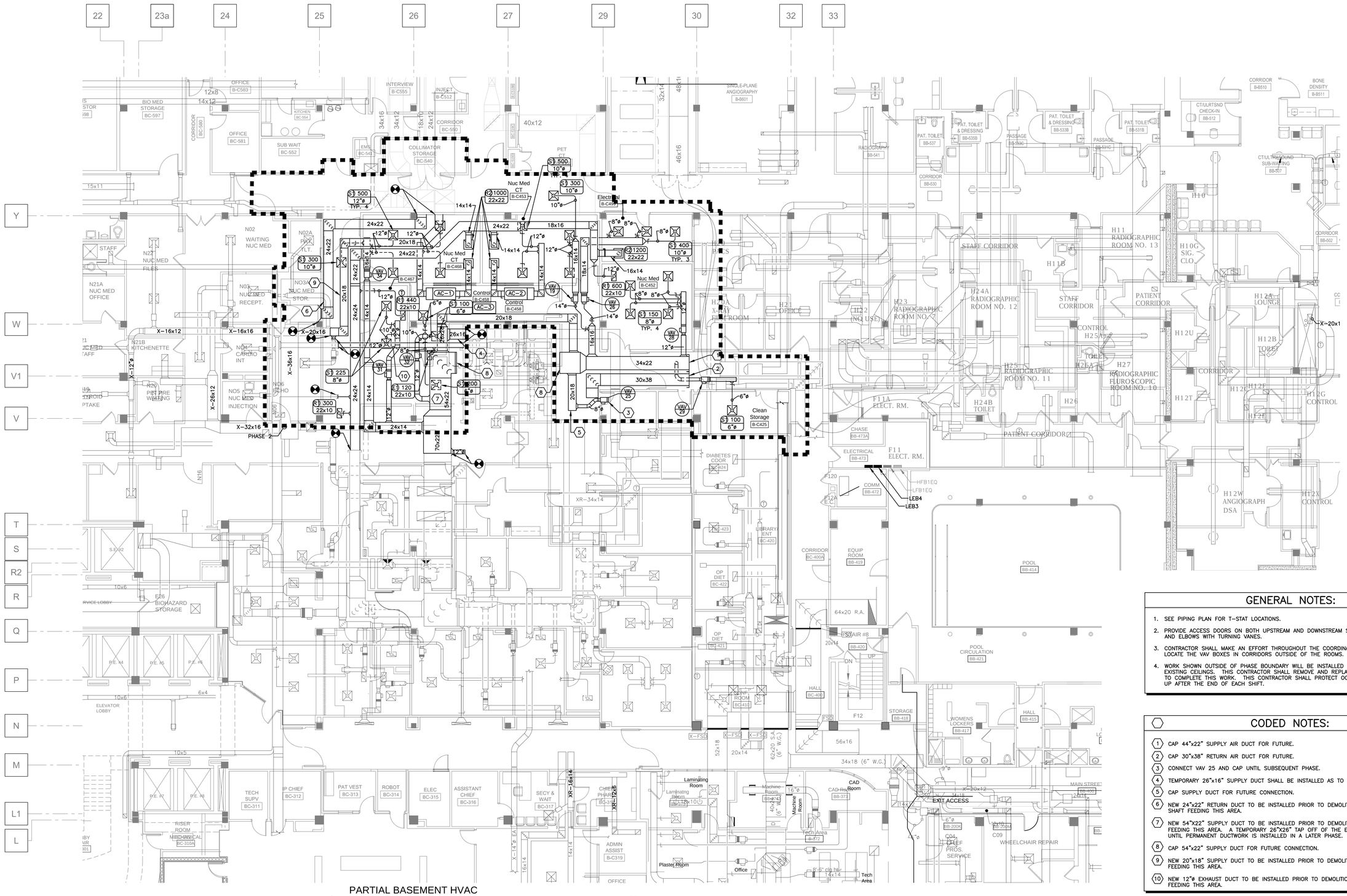

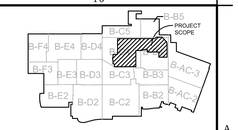

KEY PLAN - BASEMENT

Scale = None

GENERAL NOTES:

1. SEE PIPING PLAN FOR T–STAT LOCATIONS.
2. PROVIDE ACCESS DOORS ON BOTH UPSTREAM AND DOWNSTREAM SIDES OF ALL FIRE DAMPERS AND ELBOWS WITH TURNING VANES.
3. CONTRACTOR SHALL MAKE AN EFFORT THROUGHOUT THE COORDINATION DRAWING PROCESS TO LOCATE THE VAV BOXES IN CORRIDORS OUTSIDE OF THE ROOMS.
4. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

CODED NOTES:

1. CAP 44"x22" SUPPLY AIR DUCT FOR FUTURE.
2. CAP 30"x38" RETURN AIR DUCT FOR FUTURE.
3. CONNECT VAV 25 AND CAP UNTIL SUBSEQUENT PHASE.
4. TEMPORARY 26"x16" SUPPLY DUCT SHALL BE INSTALLED AS TO MINIMIZE DOWNTIME.
5. CAP SUPPLY DUCT FOR FUTURE CONNECTION.
6. NEW 24"x22" RETURN DUCT TO BE INSTALLED PRIOR TO DEMOLITION OF EXISTING DUCT AND SHAFT FEEDING THIS AREA.
7. NEW 54"X22" SUPPLY DUCT TO BE INSTALLED PRIOR TO DEMOLITION OF EXISTING SUPPLY FEEDING THIS AREA. A TEMPORARY 26"X26" TAP OFF OF THE ELBOW WILL FEED THIS AREA UNTIL PERMANENT DUCTWORK IS INSTALLED IN A LATER PHASE.
8. CAP 54"x22" SUPPLY DUCT FOR FUTURE CONNECTION.
9. NEW 20"x18" SUPPLY DUCT TO BE INSTALLED PRIOR TO DEMOLITION OF EXISTING DUCT FEEDING THIS AREA.
10. NEW 12"ø EXHAUST DUCT TO BE INSTALLED PRIOR TO DEMOLITION OF EXISTING EXHAUST FEEDING THIS AREA.

PARTIAL BASEMENT HVAC DUCTWORK PLAN - PHASE 2 (1)

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

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Drawing Title: NUCLEAR MEDICINE PARTIAL BASEMENT HVAC DUCTWORK PLAN - PHASE 2

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H4.2

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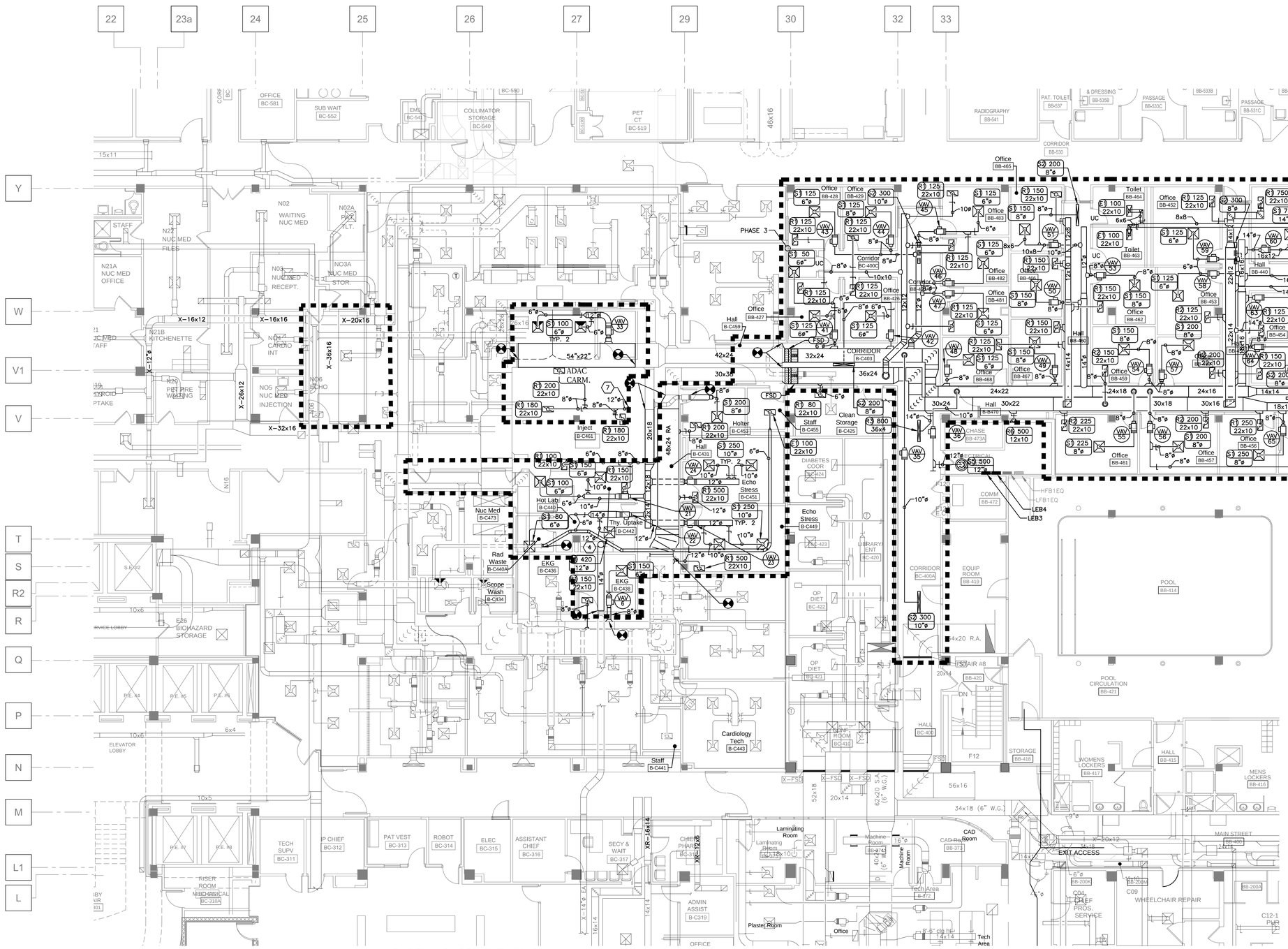

PARTIAL BASEMENT HVAC DUCTWORK PLAN - PHASE 3

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1

GENERAL NOTES:

1. SEE PIPING PLAN FOR T-STAT LOCATIONS.
2. PROVIDE ACCESS DOORS ON BOTH UPSTREAM AND DOWNSTREAM SIDES OF ALL FIRE DAMPERS AND ELBOWS WITH TURNING VANES.
3. CONTRACTOR SHALL MAKE AN EFFORT THROUGHOUT THE COORDINATION DRAWING PROCESS TO LOCATE THE VAV BOXES IN CORRIDORS OUTSIDE OF THE ROOMS.
4. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

CODED NOTES:

1. TIE INTO EXISTING 42x24 SUPPLY DUCT.
2. TIE INTO EXISTING 54x24 RETURN DUCT.
3. TIE INTO EXISTING 14"x10" EXHAUST RISER. PROVIDE FIRE DAMPER AT SHAFT WALL. MECHANICAL CONTRACTOR TO CUT AND PATCH SHAFT WALL AS REQUIRED FOR DUCT AND FIRE DAMPER.
4. TIE 14"ø STAINLESS STEEL EXHAUST DUCT INTO NEW LAB HOOD. PROVIDE HEAVY DUTY VENTURI BALANCE DAMPER SUCH AS RUSKIN. CONTRACTOR SHALL COORDINATE CFM AND STATIC PRESSURE WITH PRE-PURCHASED HOOD. HOOD DESIGN BASED ON 1000 CFM EXHAUST @ 1.0" S.P.
5. REMOVE AND REPAIR SHAFT WALL AS REQUIRED TO MAKE EXHAUST CONNECTION.
6. CORE DRILL AND PATCH CONCRETE WALL AT DUCT PENETRATION.
7. CAP DUCT FOR FUTURE EXTENSION IN PHASE 4.

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

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Drawing Title: NUCLEAR MEDICINE PARTIAL BASEMENT HVAC DUCTWORK PLAN - PHASE 3

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H4.3

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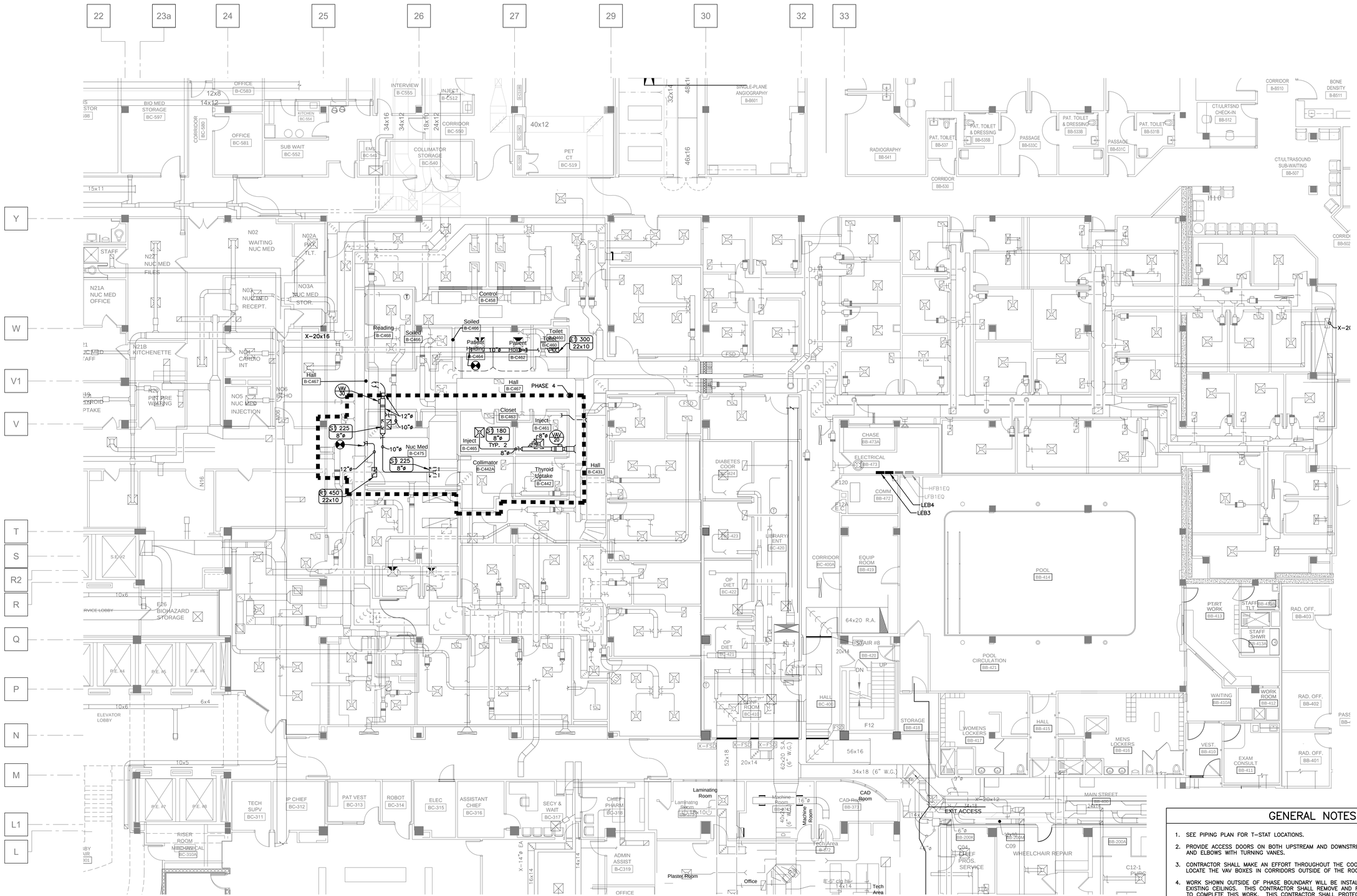

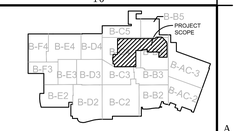

KEY PLAN - BASEMENT

Scale = None

NORTH

TRUE NORTH

PARTIAL BASEMENT HAVC DUCTWORK PLAN - PHASE 4

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1

GENERAL NOTES:

1. SEE PIPING PLAN FOR T-STAT LOCATIONS.
2. PROVIDE ACCESS DOORS ON BOTH UPSTREAM AND DOWNSTREAM SIDES OF ALL FIRE DAMPERS AND ELBOWS WITH TURNING VANES.
3. CONTRACTOR SHALL MAKE AN EFFORT THROUGHOUT THE COORDINATION DRAWING PROCESS TO LOCATE THE VAV BOXES IN CORRIDORS OUTSIDE OF THE ROOMS.
4. WORK SHOWN OUTSIDE OF PHASE BOUNDARY WILL BE INSTALLED AFTER HOURS ABOVE EXISTING CEILINGS. THIS CONTRACTOR SHALL REMOVE AND REPLACE CEILING AS REQUIRED TO COMPLETE THIS WORK. THIS CONTRACTOR SHALL PROTECT OCCUPIED AREA AND CLEAN UP AFTER THE END OF EACH SHIFT.

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Drawing Title: NUCLEAR MEDICINE PARTIAL BASEMENT HVAC DUCTWORK PLAN - PHASE 4

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H4.4

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Department of Veterans Affairs

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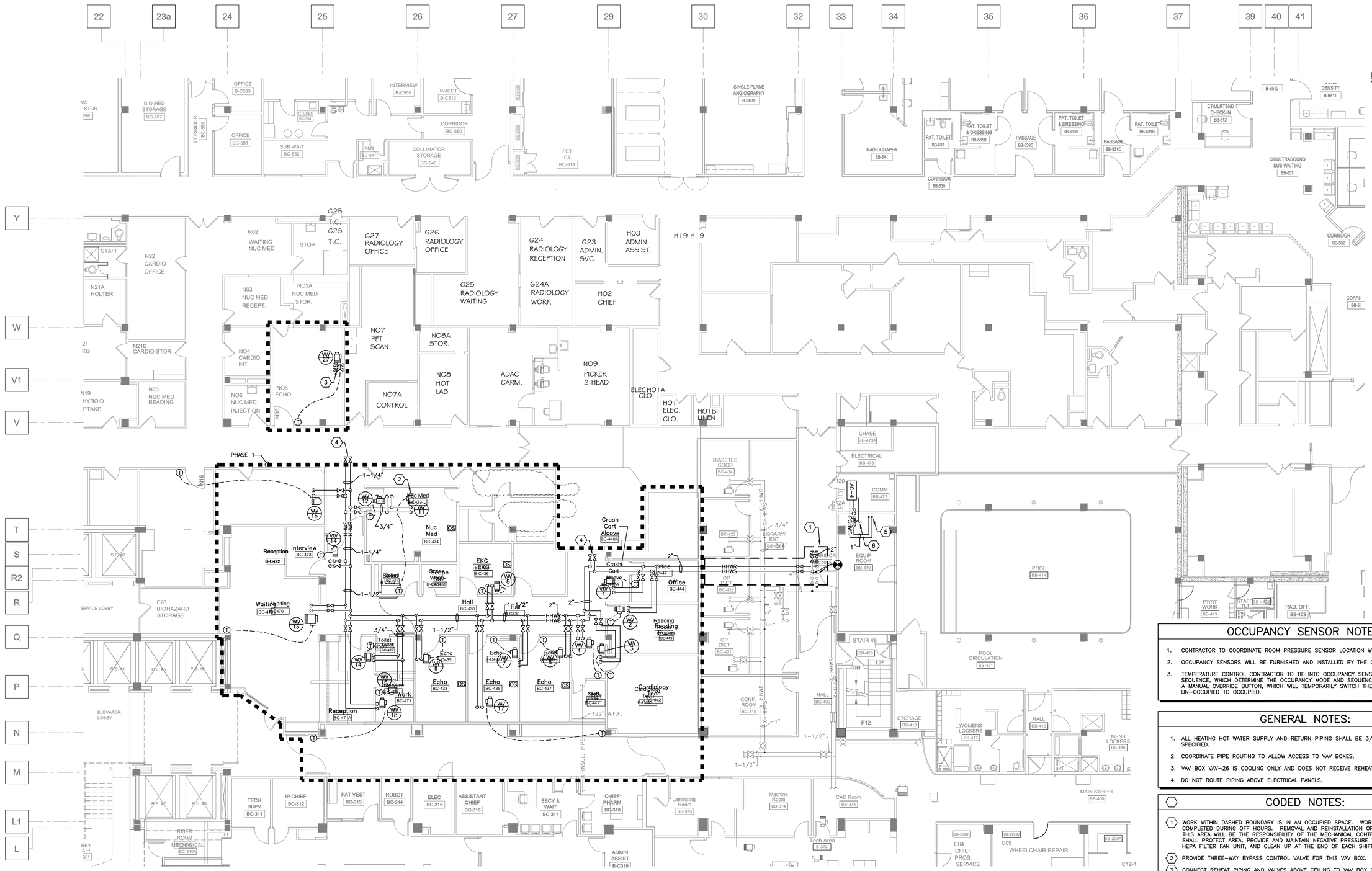

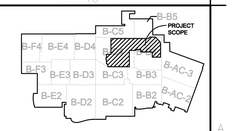

KEY PLAN - BASEMENT
Scale = None

NORTH
TRUE NORTH

OCCUPANCY SENSOR NOTES:

1. CONTRACTOR TO COORDINATE ROOM PRESSURE SENSOR LOCATION WITH ARCHITECT.
2. OCCUPANCY SENSORS WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
3. TEMPERATURE CONTROL CONTRACTOR TO TIE INTO OCCUPANCY SENSORS AND PROGRAM SEQUENCE, WHICH DETERMINE THE OCCUPANCY MODE AND SEQUENCE. IN ADDITION PROVIDE A MANUAL OVERRIDE BUTTON, WHICH WILL TEMPORARILY SWITCH THE SEQUENCE FROM UN-OCCUPIED TO OCCUPIED.

GENERAL NOTES:

1. ALL HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE 3/4" UNLESS OTHERWISE SPECIFIED.
2. COORDINATE PIPE ROUTING TO ALLOW ACCESS TO VAV BOXES.
3. VAV BOX VAV-26 IS COOLING ONLY AND DOES NOT RECEIVE REHEAT PIPING.
4. DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS.

CODED NOTES:

1. WORK WITHIN DASHED BOUNDARY IS IN AN OCCUPIED SPACE. WORK IN THIS AREA MUST BE COMPLETED DURING OFF HOURS. REMOVAL AND REINSTALLATION OF EXISTING CEILING IN THIS AREA WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. CONTRACTOR SHALL PROTECT AREA, PROVIDE AND MAINTAIN NEGATIVE PRESSURE THROUGH THE USE OF A HEPA FILTER FAN UNIT, AND CLEAN UP AT THE END OF EACH SHIFT.
2. PROVIDE THREE-WAY BYPASS CONTROL VALVE FOR THIS VAV BOX.
3. CONNECT REHEAT PIPING AND VALVES ABOVE CEILING TO VAV BOX 27. MAKE FINAL REHEAT PIPING CONNECTIONS TO MAIN UNDER PHASE 2.
4. INSTALL ISOLATION VALVE AT END OF PIPING FOR FUTURE CONNECTION.
5. ROUTE 1" PCHWS AND PCHWR PIPING DOWN ALONG WALL AND DOWN THRU FLOOR TO SUB-BASEMENT. SEE 1-H6 FOR CONTINUATION.
6. PROVIDE CONDENSATE DRAIN PIPE FROM AC UNIT TO FLOOR DRAIN IN MECHANICAL ROOM. CONDENSATE PIPING SHALL BE ¾" TYPE L COPPER WITH ½" ARMAFLEX INSULATION.

PHASING NOTES:

REFER TO ARCHITECTURAL PHASING PLANS (DWGS 1-01.1, 1-01.2, 1-01.3, 1-01.4) FOR ADDITIONAL CONSTRUCTION PHASING REQUIREMENTS. CONTRACTOR WILL HAVE LIMITED ACCESS AND TIME TO COMPLETE WORK IN AREAS NOTED ON ARCHITECTURAL PHASING PLANS. WORK IN AREAS OUTSIDE CONSTRUCTION PHASE BOUNDARY OR AREAS NOTED TO BE COMPLETED AS A PART OF PREVIOUS OR FUTURE SEQUENCE WITHIN THE PHASE SHALL BE COMPLETED DURING OFF HOURS.

PARTIAL BASEMENT HVAC PIPING PLAN - PHASE 1 (1)
SCALE: 1/8" = 1'0"
0' 4' 8' 16' 32'

FULLY SPRINKLERED

Revisions:	Date
Bid Issue	01/17/14

CONSULTANTS:

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Drawing Title: **PARTIAL BASEMENT HVAC PIPING PLAN - PHASE 1**

Approved: Project Director

Project Title: **EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY**

Location: **VAMC - WADE PARK**

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

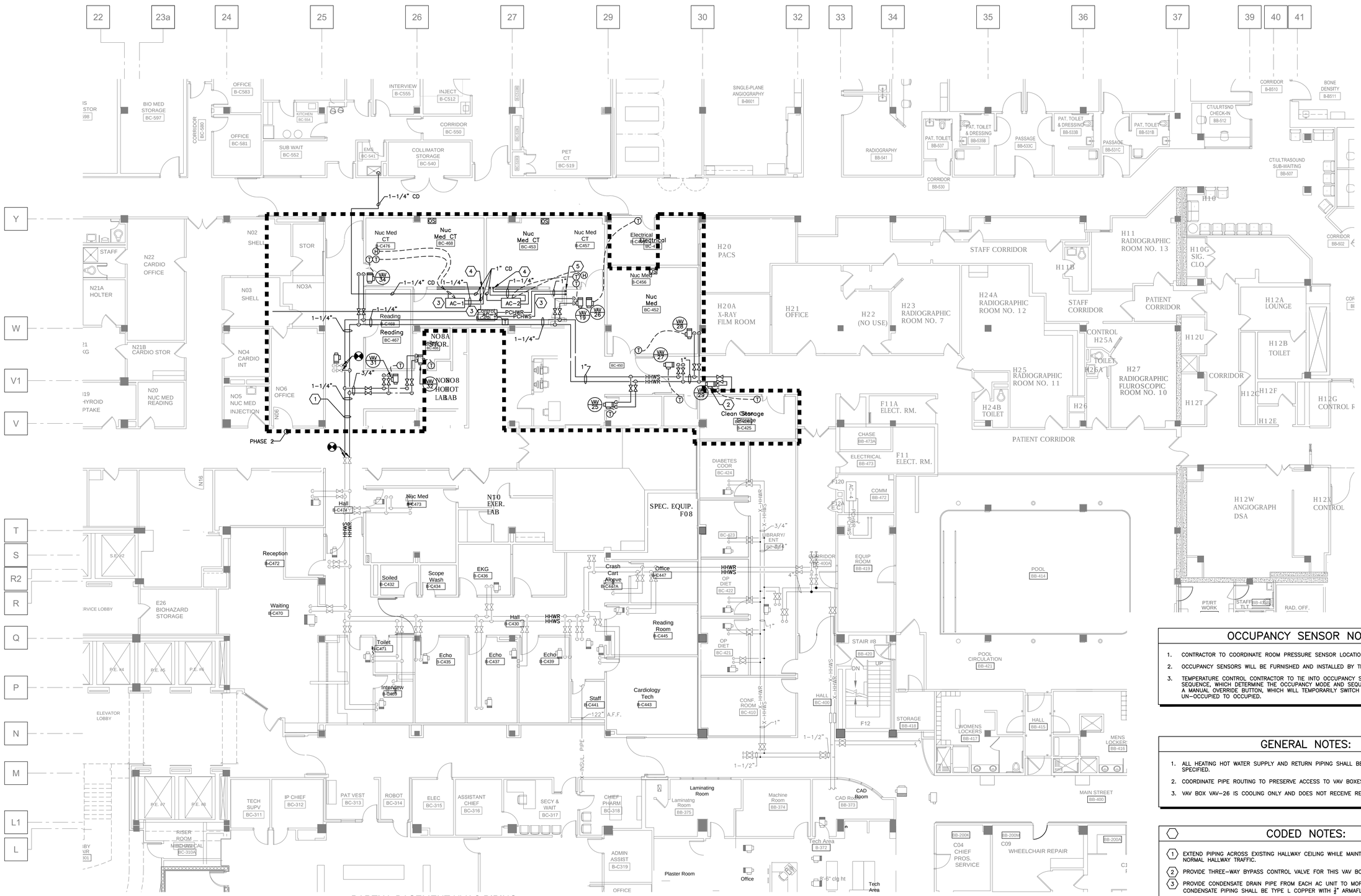
Building Number: 1

Drawing Number: **1-H5.1**

Dwg. of

Office of Facilities Management

Department of Veterans Affairs



PARTIAL BASEMENT HVAC PIPING PLAN - PHASE 2

SCALE: 1/8" = 1'0"

0' 4' 8' 16' 32'

1

OCCUPANCY SENSOR NOTES:

1. CONTRACTOR TO COORDINATE ROOM PRESSURE SENSOR LOCATION WITH ARCHITECT.
2. OCCUPANCY SENSORS WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
3. TEMPERATURE CONTROL CONTRACTOR TO TIE INTO OCCUPANCY SENSORS AND PROGRAM SEQUENCE, WHICH DETERMINE THE OCCUPANCY MODE AND SEQUENCE. IN ADDITION PROVIDE A MANUAL OVERRIDE BUTTON, WHICH WILL TEMPORARILY SWITCH THE SEQUENCE FROM UN-OCCUPIED TO OCCUPIED.

GENERAL NOTES:

1. ALL HEATING HOT WATER SUPPLY AND RETURN PIPING SHALL BE 3/4" UNLESS OTHERWISE SPECIFIED.
2. COORDINATE PIPE ROUTING TO PRESERVE ACCESS TO VAV BOXES.
3. VAV BOX VAV-26 IS COOLING ONLY AND DOES NOT RECEIVE REHEAT PIPING.

CODED NOTES:

1. EXTEND PIPING ACROSS EXISTING HALLWAY CEILING WHILE MAINTAINING HALLWAY CEILING AND NORMAL HALLWAY TRAFFIC.
2. PROVIDE THREE-WAY BYPASS CONTROL VALVE FOR THIS VAV BOX.
3. PROVIDE CONDENSATE DRAIN PIPE FROM EACH AC UNIT TO MOP BASIN IN JANITOR CLOSET. CONDENSATE PIPING SHALL BE TYPE L COPPER WITH ½" ARMAFLEX INSULATION.
4. ROUTE 1-1/4" PCHWS AND PCHWR PIPING DOWN IN WALL AND DOWN THRU FLOOR TO SUB-BASEMENT. SEE 1-H6 FOR CONTINUATION.
5. ROUTE 1" PCHWS AND PCHWR PIPING DOWN IN WALL AND DOWN THRU FLOOR TO SUB-BASEMENT. SEE 1-H6 FOR CONTINUATION.

FULLY SPRINKLERED

Revisions:	Date
Bid Issue	01/17/14

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Drawing Title: PARTIAL BASEMENT HVAC PIPING PLAN - PHASE 2

Approved: Project Director

Project Title: EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location: VAMC - WADE PARK

Date: 1-17-2014 | Checked: BMW | Drawn: DAD

Project Number: 541-14-101

Building Number: 1

Drawing Number: 1-H5.2

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VA FORM 08-6231, OCT 1978